

WY 2002/2003 EWA Accounting Summary
Based upon March 1 - 90% Exceedance Hydrology (EWA Backstop)
Assumptions: SWP Allocation ~ 50%; NOD Purchases - 127 TAF; SOD Purchases - 74 TAF

EWA NOD and SOD Storage																	
1	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NOD ⁰	27 ^{*3}	1.7 ³	0.7 ³	7 ⁵						65 ⁶	55 ⁶						129
SOD	37 ⁴																0

EWA Asset Acquisition in SWP San Luis ¹																	
2	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation							35										35
EWA share of SWP gain							21										21
Project Pumping to reduce EWA debt																	0
JPOD using excess flows																	0
JPOD using NOD storage																	0
Xfer NOD - Sacramento River ²											5 [*]	5 [*]	22 ^{*,5,6}				33
Xfer NOD - San Joaquin River ²																	0
SOD SWP Surface/GW Purchases									37 ⁴		25 ⁷	25 ⁷	25 ⁷				111
Exchange of EWA assets																	0
Groundwater pumping SOD																	0
Exchange from CVP to SWP in SL																	0
Total Monthly EWA Assets		0	0	0	0	0	56	0	37	0	30	30	47	0	0	0	199

EWA Asset Acquisition in CVP San Luis																	
3	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation																	0
Project Pumping to reduce EWA debt							6										6
JPOD using excess flows																	0
JPOD using NOD storage																	0
Xfer NOD - Sacramento River ²				0.5 ³							34 ^{5,6}	34 ^{5,6}	17 ^{5,6}				86
Xfer NOD - San Joaquin River ²																	0
SOD CVP Surface/GW purchases																	0
Exchange of EWA assets																	0
Groundwater pumping																	0
Exchange from SWP to CVP in SL																	0
Total Monthly EWA Assets	0	0	0	1	0	0	6	0	0	0	34	34	17	0	0	0	91

EWA Expenditures at the Export Pumps																	
4	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP export cuts ⁹				-32 ¹⁰	-90 ¹¹			-13	-10								-144
CVP export cuts									-25	-60							-85
Total Expenditures	0	0	0	-32	-90	0	0	-13	-35	-60	0	0	0	0	0	0	-229

EWA End-of-Month Incremental Storage Changes																	
5	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP in SL (without Source Shift)	11	0	0	-32	-90	0	56	-13	27	0	30	30	47	0	0	0	66
CVP in SL	-6	0	0	1	0	0	6	0	-25	-60	34	34	17	0	0	0	0
NOD Storage ¹²	24	2	1	2	-2	0	0	0	0	65	6	-49	-49	0	0	0	0
Groundwater SOD	37	0	0	0	-37	0	0	0	0	0	0	0	0	0	0	0	0
Total Incremental Storage Changes	66	2	1	-30	-128	0	61	-13	2	5	70	15	15	0	0	0	66

EWA End-of-Month Storage Balance at Various Sites																	
6	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
SWP in SL (without Source Shift)	11	11	11	-21	-111	-111	-55	-68	-41	-41	-11	19	66	66	66	66	
CVP SL	-6	-6	-6	-6	-6	-6	0	0	-25	-85	-51	-17	0	0	0	0	
NOD Storage	24	26	27	29	27	27	27	27	27	92	98	49	0	0	0	0	
Groundwater SOD	37	37	37	37	0	0	0	0	0	0	0	0	0	0	0	0	
EWA Asset Balance	66	68	68	39	-89	-89	-28	-41	-39	-34	36	51	66	66	66	66	

San Luis Reservoir Storage Conditions																	
7	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Total Storage (base case) ^a		645	783	1037	1554	1856	2009	1696	1229	748	384	143	160	261	424	638	
Encroachment																	
Total Storage (EWA case)		650	788	1010	1438	1739	1954	1628	1163	622	322	144	225	327	490	704	
MWD Source Shifting																	
Storage (with MWD source shifting)		650	788	1010	1438	1739	1954	1628	1163	622	322	144	225	327	490	704	

⁰ 2002 NOD Purchases = 135(YCWA) + 10(SGA). 2003 NOD Purchases = 185(YCWA) + 10(OWID). YCWA has firm 55 TAF; can exercise options for an additional amount (at present - another 65 (10+55) TAF).

^{*} The SWP was able to back 20 TAF of water for the EWA into Lake Oroville between September 14 and October 6, 2002 (which includes a 20% carriage water loss). SOD equivalent = 16 TAF (not a 1:1 Exchange).

¹ Aqueduct conveyance and evaporation losses are not included.

² Carriage water loss applies to water transfers from the Sacramento River; a 10% conveyance loss applies to water transfers from the San Joaquin River. A carriage water loss of 20% was applied to the 2002 water transfers.

³ 2002 SGA Transfer (CVP place of use). Exchange of EWA capacity during the summer for the CVP is pending. ⁴ 2002 KCWA Transfer (SWP place of use)

⁵ 2003 OWID Transfer (Joint place of use) ⁶ 2003 YCWA Transfer (Joint place of use) ⁷ 2003 KCWA Transfer (SWP place of use)

⁸ Based upon the 3/10/2003 DWR's 90% allocation study and the 3/14/2003 USBR's 90% B2 forecast.

⁹ These placeholders are based upon the CVP/SWP March forecast.

¹⁰ Of this amount, 27 TAF was expended for the 12/27-12/30/02 curtailment. The remaining amount is for the 12/31/02 portion of the 12/31/02-1/2/03 curtailment.

¹¹ Of this amount, approximately 9.5 TAF was expended for the 1/1-1/2/03 portion of the 12/31/02-1/2/03 curtailment; about 60 TAF was expended for the 1/15-1/20/03 curtailment; about 20 TAF was expended for the 1/25-1/28/03 curtailment.

¹² The CVP released the following: 4.645 TAF of water (which is the San Juan portion of the SGA) between 12/20-12/29/02 from Folsom Reservoir.

WY 2002/2003 EWA Accounting Summary
Based upon March 1 - 50% Exceedance Hydrology (EWA Backstop)
Assumptions: SWP Allocation ~ 74%; NOD Purchases - 62 TAF; SOD Purchases - 145 TAF

EWA NOD and SOD Storage																	
1	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NOD ⁰	27 ^{1,2}	1.7 ³	0.7 ³	7 ⁵						55 ⁶							63
SOD	37 ⁴																0

EWA Asset Acquisition in SWP San Luis ¹																	
2	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation							35										35
EWA share of SWP gain							21										21
Project Pumping to reduce EWA debt																	0
JPOD using excess flows																	0
JPOD using NOD storage																	0
Xfer NOD - Sacramento River ²											3 ⁺	3 ⁺	3 ⁺				10
Xfer NOD - San Joaquin River ²																	0
SOD SWP Surface/GW Purchases									37 ⁴	36 ⁷	36 ⁷	36 ⁷	36 ⁷				182
Exchange of EWA assets																	0
Groundwater pumping SOD																	0
Exchange from CVP to SWP in SL																	0
Total Monthly EWA Assets		0	0	0	0	0	56	0	37	36	40	40	40	0	0	0	248

EWA Asset Acquisition in CVP San Luis																	
3	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation							6										6
Project Pumping to reduce EWA debt																	0
JPOD using excess flows																	0
JPOD using NOD storage																	0
Xfer NOD - Sacramento River ²				0.5 ³							17 ^{5,6}	17 ^{5,6}	17 ^{5,6}				50
Xfer NOD - San Joaquin River ²																	0
SOD CVP Surface/GW purchases																	0
Exchange of EWA assets																	0
Groundwater pumping																	0
Exchange from SWP to CVP in SL																	0
Total Monthly EWA Assets	0	0	0	1	0	0	6	0	0	0	17	17	17	0	0	0	56

EWA Expenditures at the Export Pumps																	
4	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP export cuts ⁹				-32 ¹⁰	-90 ¹¹			-47	-138	-26							-333
CVP export cuts									-60	-22							-82
Total Expenditures	0	0	0	-32	-90	0	0	-47	-198	-48	0	0	0	0	0	0	-415

EWA End-of-Month Incremental Storage Changes																	
5	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP in SL (without Source Shift)	11	0	0	-32	-90	0	56	-47	-101	10	40	40	40	0	0	0	-74
CVP in SL	-6	0	0	1	0	0	6	0	-60	-22	17	17	17	0	0	0	-32
NOD Storage ¹²	24	2	1	2	-2	0	0	0	0	55	-25	-25	-25	0	0	0	7
Groundwater SOD	37	0	0	0	-37	0	0	0	0	0	0	0	0	0	0	0	0
Total Incremental Storage Changes	66	2	1	-30	-128	0	61	-47	-161	43	31	31	31	0	0	0	-100

EWA End-of-Month Storage Balance at Various Sites																	
6	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP in SL (without Source Shift)	11	11	11	-21	-111	-111	-55	-102	-203	-193	-154	-114	-74	-74	-74	-74	
CVP SL	-6	-6	-6	-6	-6	-6	0	0	-60	-82	-65	-49	-32	-32	-32	-32	
NOD Storage	24	26	27	29	27	27	27	27	27	82	57	32	7	7	7	7	
Groundwater SOD	37	37	37	37	0	0	0	0	0	0	0	0	0	0	0	0	
EWA Asset Balance	66	68	68	39	-90	-90	-28	-75	-237	-193	-162	-131	-100	-100	-100	-100	

San Luis Reservoir Storage Conditions																	
7	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total Storage (base case) ⁸		645	783	1037	1554	1856	2009	1817	1416	998	738	573	639	693	823	988	
Encroachment																	
Total Storage (EWA case)		650	788	1010	1438	1739	1954	1715	1152	722	519	411	532	586	717	882	
MWD Source Shifting																	
Storage (with MWD source shifting)		650	788	1010	1438	1739	1954	1715	1152	722	519	411	532	586	717	882	

⁰ 2002 NOD Purchases = 135(YCWA) + 10(SGA). 2003 NOD Purchases = 185(YCWA) + 10(OWID). YCWA has firm 55 TAF; can exercise options for an additional amount (at present - another 65 (1C
¹ The SWP was able to back 20 TAF of water for the EWA into Lake Oroville between September 14 and October 6, 2002
(which includes a 20% carriage water loss). SOD equivalent = 16 TAF (not a 1:1 Exchange).
² Aqueduct conveyance and evaporation losses are not included.
³ Carriage water loss applies to water transfers from the Sacramento River; a 10% conveyance loss applies to water transfers from the San Joaquin River.
A carriage water loss of 20% was applied to the 2002 water transfers.
⁴ 2002 SGA Transfer (CVP place of use). Exchange of EWA capacity during the summer for the CVP is pending. ⁵ 2002 KCWA Transfer (SWP place of use)
⁶ 2003 OWID Transfer (Joint place of use) ⁷ 2003 YCWA Transfer (Joint place of use) ⁸ 2003 KCWA and SCVWD Transfer (SWP place of use)
⁹ Based upon the 3/10/2003 DWR's 50% allocation study and the 3/14/2003 USBR's 50% B2 forecast.
¹⁰ These placeholders are based upon the CVP March forecast.
¹¹ Of this amount, 27 TAF was expended for the 12/27-12/30/02 curtailment. The remaining amount is for the 12/31/02 portion of the 12/31/02-1/2/03 curtailment.
¹² Of this amount, approximately 9.5 TAF was expended for the 1/1-1/2/03 portion of the 12/31/02-1/2/03 curtailment; about 60 TAF was expended for the 1/15-1/20/03 curtailment;
about 20 TAF was expended for the 1/25-1/28/03 curtailment.
¹³ The CVP released the following for instream benefits: 4,645 TAF of water (which is the San Juan portion of the SGA) between 12/20-12/29/02 from Folsom Reservoir.